

FEDERAL TRADE COMMISSION

I N D E X

COLLOQUY SESSION	PAGE
(LEAD BY:)	
MR. SALSBURG	4
MS. BUSH	40

1 FEDERAL TRADE COMMISSION

2
3 In the Matter of:)
4 REPORT TO CONGRESS PURSUANT TO)
5 CAN-SPAM ACT.) Matter No. P044405
6 -----)

7 THURSDAY

8 FEBRUARY 26, 2004

9
10 Room 294

11 Federal Trade Commission

12 600 Pennsylvania Ave., N.W.

13 Washington, D.C. 20580
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15 The above-entitled matter came on for
16 conference, pursuant to agreement at 1:10 p.m.
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2 APPEARANCES:

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4 ON BEHALF OF THE FEDERAL TRADE COMMISSION:

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16 PARTICIPANTS (VIA TELEPHONE):

17 JOHN LEVINE

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1 P R O C E E D I N G S

2 MR. SALSBURG: We're ready to begin then.
3 Yakov, I was mentioning that we have a court reporter
4 here. The court reporter is transcribing the
5 conversations that we have so we have the ability to
6 cite to it when we're preparing our report to Congress.
7 There are some formalities that I'll begin with first.

8 Today is Thursday, February 26, it's one p.m.
9 Eastern Time. Today we're meeting with John Levine and
10 Yakov Shafranovich.

11 MR. SHAFRANOVICH: Shafranovich.

12 MR. SALSBURG: Did I pronounce that correctly?

13 MR. SHAFRANOVICH: It's actually Shafranovich.

14 MR. SALSBURG: Shafranovich, okay. The purpose
15 of the meeting is to discuss a possible National Do Not
16 E-mail Registry. A little bit later on in the
17 conversation, we may be joined by some of our other FTC
18 colleagues who may ask questions about a possible bounty
19 system that the CAN-SPAM Act also asked the FTC to
20 study.

21 Because the meeting is being transcribed by a
22 court reporter who doesn't have the benefit of seeing
23 you, the first couple times that you speak, if you can
24 just identify who you are, and I'm pretty sure she'll
25 pick up pretty quickly which one of you is speaking

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1 after that.

2 MR. LEVINE: Okay.

3 MR. SALSBURG: John and Yakov, could you
4 identify the names of your firms and role in the
5 Internet Research Task Force?

6 MR. SHAFRANOVICH: Yakov Shafranovich. Well, my
7 company is Solid Matrix Technologies Incorporated, and
8 we basically are a business consulting firm. My role is
9 one of the chairs of the Anti-spam Research Group of
10 the Internet Research Task Force, and the purpose of the
11 ASRG and the IRTF is to provide research and pre
12 standard work for the Internet Standards community,
13 mainly of the Internet Engineering Task Force.

14 MR. SALSBURG: John?

15 MR. LEVINE: Yes. My company is called
16 Taughannock, T-A-U-G-H-A-N-N-O-C-K, Networks. It's a
17 sole proprietorship. I write books about the Internet,
18 and I consult the news and do software design, and I'm
19 here in the role as the other co-chair of the ASRG.

20 MR. SALSBURG: Great. As you're both aware, the
21 CAN-SPAM Act among other things, requires the FTC to
22 prepare a report to Congress that sets forth a plan and
23 timetable for establishing a National Do Not E-mail
24 Registry. This report also, in addition to setting
25 forth a plan and timetable, is supposed to include an

1 explanation of any practical, technical, security,
2 privacy, enforcement or other concerns that the
3 Commission may have with such a registry.

4 This report is due in Congress on June 16 of
5 2004 which means we're quickly trying to gather as much
6 information as possible so we can begin writing the
7 report and have it be as thorough a report as possible.
8 The meeting with you today is to help us with
9 accomplishing that task.

10 Have either of you seen the Request for
11 Information that the FTC issued on Friday regarding the
12 registry?

13 MR. LEVINE: This is John. I have.

14 MR. SHAFRANOVICH: I haven't had a chance to
15 look at it yet.

16 MR. SALSBURG: Okay. The Request for
17 Information is a request to potential vendors to provide
18 possible registry models and how they would go about
19 setting up a registry. The RFI proposes a few such
20 models and then invites any other creative
21 possibilities that are out there to be submitted as
22 well.

23 We thought it might be most useful to go
24 through some of these models with you and see what your
25 thoughts are in terms of the effectiveness, security and

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1 privacy and enforceability concerns you might have
2 with these models.

3 So why don't we start with the first model,
4 which is very similar to the Do Not Call Registry for
5 telemarketing that the Commission operates. Under this
6 model, a consumer would submit his or her e-mail address
7 to the FTC. That e-mail address would be placed in a
8 database. The database of registered e-mail addresses
9 would be made available to e-mail marketers who would
10 then scrub their mailing lists to remove the e-mail
11 addresses of any consumer appearing on the list.

12 Do you have thoughts on such a model?

13 MR. LEVINE: Yeah. This is John. I don't think
14 a single address model like that is workable, and it's
15 for a couple of reasons. One is that I think it would
16 be extremely difficult to keep such a list secure, even
17 if the FTC provides a list of scrubbing services itself
18 or it went through a small set of trusted vendors.

19 Spammers can triangulate. They could send in
20 huge lists of e-mail addresses and then compare the
21 scrubbed lists with the original list to figure out what
22 addresses were removed. So the first issue there is the
23 security issue.

24 The second is an issue of effectiveness. An
25 important difference between e-mail addresses and phone

1 numbers is that you can easily enumerate all the possible
2 phone numbers in the U.S. You cannot easily enumerate
3 all the e-mail addresses, and as a matter of fact,
4 you can't even easily enumerate all of the e-mail
5 addresses for a single person. Two examples of that are
6 in my case I have an entire domain -- johnlevine.com.
7 Every single address that is johnlevine.com is me, even
8 addresses that have never been used before. Many
9 companies have address servers that accept possible
10 approximate addresses, so that if somebody's official
11 e-mail address is john.smith@company.com, it might well
12 also accept jsmith or j.smith or if the middle initial
13 is Q, johnqsmith or jqsmith or any of a hundred
14 variations.

15 And for Do Not E-mail Registry to be effective
16 you would have to register all of those. I can come up
17 with a bunch of other scenarios where there are many,
18 many addresses corresponding to one person, so for these
19 reasons -- these are the basic reasons that I think a
20 registry of single addresses is unlikely to be
21 workable. Yakov?

22 MR. SHAFRANOVICH: Yeah. I would like to
23 suggest that the amount of data you're reporting is much
24 bigger than for the phone registry. The size of the
25 data will be enormous, so that's something you will also

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1 want to take into account also, and like John mentioned,
2 you want to provide apparently the ability for being
3 able to list an entire domain or a list of names, not
4 just single domains because there's just a lot of
5 possibilities in the e-mail world that are not present in
6 the regular world.

7 MR. SALSBURG: John, you mentioned that there
8 were other scenarios where a person might have multiple
9 addresses.

10 MR. LEVINE: Yeah.

11 MR. SALSBURG: Can you give me some other
12 examples?

13 MR. LEVINE: Yes. A common scenario is sub
14 addresses. Although my regular address is
15 johnl@taush.com, any address of the form John L
16 dash something is also me, and it turns out that sub
17 addressing feature, it's a standard feature of a lot of
18 mail systems, so that there are a lot of people that
19 don't realize they have sub addresses, and again if
20 you're going to -- sub addresses they've never used
21 would still be their addresses so if you were going to
22 -- if they were going to opt themselves out, they would
23 have to opt out of every single possible sub address.

24 It's just impossible because there are literally
25 billions of sub addresses possible for each individual

1 e-mail address.

2 MR. SALSBURG: Do e-mail programs enable you to
3 turn off that sub addressing system?

4 MR. LEVINE: They do, although it's extremely
5 useful. It would be a big operational issue for me to
6 do that. The way I use it, every time I provide an
7 e-mail address to a web site or mailing address or to
8 someone I don't know very well, I give them a unique
9 address, and by using those individual sub addresses, I
10 can both sort the mail that's coming in, and if someone
11 provides it improperly to a third-party, I can figure
12 out who leaks it.

13 So it's a very useful feature that, although
14 it's possible to turn off. It would be a hardship to
15 do so.

16 MR. SALSBURG: Do you have any sense of how many
17 regular consumers use this feature?

18 MR. LEVINE: Well, the question isn't how many
19 of them use it, the questions is how many of them have it
20 available. My local ISP down the road, in fact, has sub
21 addresses, and although almost none of its users use the
22 sub addresses, if a marketer simply invented a sub
23 address, it would be deliverable.

24 So that that would be a very easy way for them
25 to circumvent this Do Not E-mail List by inventing

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1 deliverable addresses that the customer wouldn't have
2 thought to opt-out.

3 MR. SHAFRANOVICH: One other thing I wanted to
4 mention, people that have multiple addresses such as
5 someone has a work and personal address, and he has
6 permission to opt-out of the e-mail address, but the work
7 address doesn't do it. It doesn't belong to him. It
8 belongs to his company, and I don't know how you're
9 going to deal with that issue.

10 I hope that you have a single e-mail registry for
11 single e-mail addresses. Who has the permission to
12 opt-out for who?

13 MR. SALSBURG: John, you began your description
14 of concerns you had with the single address model as
15 being the security issue and you mentioned
16 triangulation.

17 MR. LEVINE: Yes.

18 MR. SALSBURG: Are there ways that a list could
19 be kept secure?

20 MR. LEVINE: I think -- I've been thinking about
21 it for awhile. I simply don't see anyway you can avoid
22 the triangulation problem because the whole point of a
23 Do Not E-mail Registry is to remove addresses from lists,
24 and if spammers can present addresses at all, then they
25 can use this triangulation attack.

1 You can avoid some other issues by not
2 distributing a list in plain text and by distributing
3 hashed versions, but the triangulation attack depends
4 on the basic function of the list. No, it's
5 unavoidable.

6 MR. SALSBURG: That's because ultimately the
7 marketer gets a copy of something that allows them to
8 figure out what on their list isn't on the registry?

9 MR. LEVINE: Yeah. I suppose you might try to
10 come up with a scheme where the marketer doesn't even do
11 the mailing and the trusted third-party does the
12 mailing. I think that's impossibly cumbersome. Even
13 so, there are ways using things like web bugs to guess
14 fairly reliably which addresses were delivered and
15 which weren't, and we're back to triangulating.

16 MR. SALSBURG: I think we're going to get to
17 that third-party issue soon, so why don't we put that on
18 hold for a bit.

19 MR. LEVINE: Sure.

20 MR. SALSBURG: You also mentioned hashing,
21 and if a list were hashed, would that prevent hackers
22 from getting into the registry?

23 MR. LEVINE: That makes it less -- if a list was
24 hashed, that makes it less useful to steal the list per
25 se since you can't usually take an individual hashed

1 entry and reverse it. On the other hand, it doesn't do
2 anything about the triangulation attack or in that case
3 straightforward dictionary attack.

4 The spammer takes the most humongous list of
5 e-mailers he can hack, he can find, he hashes them all,
6 and he simply compares the hashes he came up with with
7 the ones on the list. And the ones that match; he's now
8 found some fraction of the people on the list.

9 Again it helps security some, but it doesn't
10 address the fundamental problem.

11 MR. SALSBURG: How important -- I'm sorry, go
12 ahead.

13 MR. SHAFRANOVICH: Hashing is a standard
14 security issue procedure. The passwords are usually
15 hashed, so if you have something that's been subject
16 to an attack, your local database from being hacked,
17 someone coming up with the data, that's the only
18 thing its protecting.

19 MR. LEVINE: Yeah, it doesn't protect against
20 triangulation and dictionary attack. It only protects
21 against theft of individual entries, but in this case
22 since there's so many entries, the statistical attacks
23 will get some of the entries, which will still be very
24 useful for spammers.

25 MR. SALSBURG: This is going to seem like a

1 basic question, I'm sure, but can you explain why a
2 spammer would bother to engage in a dictionary attack
3 or a triangulation attack?

4 MR. LEVINE: They have -- I do not purport to
5 have a unique insight into the psychology of spammers,
6 but I've heard plenty of cases of Do Not E-mail lists --
7 I'm sorry, of Do Not Call lists, of industry Do Not Call
8 Lists being stolen and used as a prospect list on the
9 perverted theory that, Oh, they must get fewer phone
10 calls so they would be better prospects.

11 I'm entirely confident that if some chunk of the
12 FTC's list became available, that some spammers would
13 have a theory like that, Oh, these will be live
14 addresses, and they don't get everybody else's spam so
15 they're good prospects for me.

16 MR. SALSBURG: Is there anything about the value
17 of a list of valid e-mail addresses versus a list of
18 valid phone numbers that would make an attack on a Do
19 Not E-mail Registry more valuable or more likely to be
20 engaged in by a spammer than an attack on a Do Not Call
21 Registry?

22 MR. SHAFRANOVICH: Neither.

23 MR. LEVINE: Both have more data, and one
24 difference is that we all know what all the possible
25 phone numbers are. You go and look up a list of

1 telephone prefixes and you know what all the phone
2 numbers are, but there's no equivalent master list of
3 all the possible e-mail addresses.

4 So that's a way to discover e-mail addresses that
5 you couldn't find any other way, and there's no e-mail
6 equivalent to sequentially dialing.

7 MR. SALSBURG: What are your thoughts on how
8 effective such a list could be in terms of enforcement?

9 MR. LEVINE: With the limited tools that are
10 made available by CAN-SPAM, not very. I mean the
11 closest analogy we have is the Junk Fax Law, and
12 although the FTC -- sorry, the FCC has done good
13 enforcement against the very large violators, the most
14 effective use of the TCPA has been individual suits
15 against individual junk faxers.

16 And lacking some sort of remedy like that, I
17 think it might be somewhat useful against the most
18 egregious violators. It might be somewhat useful for
19 sort of more or less legitimate bulk e-mailers that
20 voluntarily wanted to keep themselves legal, but I don't
21 think it would be terribly effective. I don't think any
22 of these would be terribly effective without stronger
23 remedies than we have available now.

24 MS. ROBBINS: What do you mean by stronger
25 remedies?

1 MR. LEVINE: Than we have available now.

2 MS. ROBBINS: But what types of remedies
3 are you envisioning?

4 MR. LEVINE: Oh, private right of action by
5 recipients. It's not so much we need larger remedies.
6 I'm not even considering putting them in jail for a
7 thousand dollars. I want broader remedies so that
8 individual recipients have the right to do something
9 about it.

10 MR. SHAFRANOVICH: Yes, it's really a question
11 of who they're able to sue. The Commission or the
12 agencies or whoever is suing has limited amounts of
13 funding. The more abilities for the Attorneys General to
14 sue and people to sue, then it's more likely that a
15 spammer that actually goes into the registry will get
16 sued.

17 The other concern is that this will not be
18 effective unless sufficient funding is provided for
19 enforcement, and I don't know how much funding Congress
20 has provided so far, but unless enough funding is
21 provided in order to support this, whichever way you're
22 enforcing it, nothing is going to happen.

23 MS. ROBBINS: Do you have any concerns about the
24 enforceability of this in terms of actually identifying
25 the spammers, as opposed to just how money is being

1 funneled to enforcement? To clarify, technically, how to
2 actually find the spammers and enforce the law that
3 way?

4 MR. LEVINE: I don't see that as being an
5 overwhelming problem. If you look at the spam suits
6 that have been filed so far by AOL and Earthlink and so
7 far, most of them start by filing against John Doe
8 defendants, but they have -- but there's enough clues
9 both on the spam and from where -- particularly if they
10 have ordered some of the stuff the spammers are
11 advertising and have figured out who cashed the check.

12 It's certainly pretty quick to turn to John Doe
13 charges into actual defendants. No, I don't see that as
14 a big problem.

15 MR. SALSBURG: What's the impact of the
16 international nature of spam on the effectiveness of a
17 registry and its enforcement?

18 MR. LEVINE: So long as the law is written so
19 that the beneficiary of the spam is responsible for it,
20 again I don't see that as a big issue. If it's a
21 constraint, the technical community we've already
22 established will just go offshore, but if you look at
23 the actual spam you're receiving, even the stuff that's
24 sent from Asia, the majority of it is clearly sent on
25 behalf of American spammers who are American

1 businesses. The spam is in English. They're trying to
2 sell stuff that's of interest to Americans, and it's my
3 understanding is that by and large, if they're selling
4 goods, the goods are shipped from the U.S. The only
5 significant Internet industry that I know that's moved
6 offshore is gambling, which is sort of a special case.

7 MR. SHAFRANOVICH: I would also add that when
8 you sign up for the registry, whatever law Congress has
9 to pass to do that, who are you going to be targeting?
10 Are you going targeting the person that actually sends
11 the spam or the person that hired him?

12 If are you going after the actual person that
13 sent the e-mail message out, that could be some
14 third-party. If you find the person that hired them,
15 that person is in the United States.

16 MR. SALSBURG: If there were to be a single
17 address model registry, about how many registrations do
18 you think would be made?

19 MR. LEVINE: Oh, man.

20 MR. SALSBURG: How big a database are we looking
21 at?

22 MR. LEVINE: Well, if you're looking at the
23 number -- if you expect everybody to behave themselves
24 and just register the addresses that they actively use,
25 you're certainly talking about hundreds of millions.

1 My guess is that some people who feel
2 exasperated and have catchall domains like I do will
3 say, Well, if they want me to register every possible
4 address, okay, I can do that, and you may end up with
5 semi-automated but entirely legitimate registrations of
6 millions and millions of addresses from an individual
7 person or for a small network, all of which are real,
8 but none of which have been used yet.

9 So that could inflate it, so the total size --
10 the total size of the database you have will certainly
11 be hundreds of millions and particularly if you have
12 people registering a lot of their variant addresses just
13 in case. It could easily be up in the billions. It
14 would be a very large database.

15 MR. SHAFRANOVICH: I believe Washington State
16 actually has some kind of registry, which you can
17 possibly look at the numbers that they were getting and
18 extrapolate from there as well.

19 MR. SALSBURG: All right.

20 MR. LEVINE: That's a good idea.

21 MR. SALSBURG: Let's move on to the second
22 possible model that's been discussed, and that's a
23 domain wide registry. Domains, including ISPs,
24 could register their domains as not to receive any
25 marketing e-mail. What are your thoughts on this

1 model?

2 MR. LEVINE: Why don't you go first, Yakov.

3 MR. SHAFRANOVICH: Well, we saw something like
4 that -- it's a very technical proposal that tries
5 to do some kind of non-soliciting type of thing, when
6 a person comes up with a name, they say do not solicit
7 a name. That's either going to be less data, less
8 numbers, but the problem that I see is in theory the
9 entire domain, if it's the domain who made the decision
10 for everybody's address, that means the individual
11 person won't receive whatever he wants. If he wants to
12 receive mail, he won't be able to make that choice.

13 MR. LEVINE: Actually I guess I would divide
14 this into three categories. The first scenario is a
15 model where the domain owner is simply sending in the
16 names of the domain and you put together a giant list.
17 That's somewhat more workable than the set of e-mail
18 addresses because the number of domains is a lot less.

19 We're talking about probably tens of millions
20 instead of hundreds of millions, and the idea that Yakov
21 had, again which is where you actually distribute the
22 list, where each domain owner publishes on its mail
23 server or along with his DNS information a no soliciting
24 tag. I think that could be pretty workable.

25 I'm also a member of the CAUCE, C-A-U-C-E, the

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1 Coalition Against Unsolicited Commercial E-mail, and in
2 1998 we published a proposal along those lines with a
3 sample code everybody agrees worked.

4 The issue that individual users in a domain
5 couldn't un-opt themselves out I don't see as very
6 compelling and for two reasons. One is that the recent
7 proposals that Yakov is referring to is one that Carl
8 Malamud submitted to the IETF, and I helped him work on
9 it, and it actually has a varying version where you can
10 actually write individual addresses, but I think more
11 importantly, ISPs are not common carriers. Network
12 operators are not common carriers, and they actually do
13 have the right to decide for the entire network what
14 the rules are.

15 If individual people want particular kinds of
16 mail, they can always sign up for it. And if there's a
17 demand for sending spam lists, I'm sure that a wide
18 variety of people will be happy to provide them. It
19 doesn't seem like -- it doesn't seem like a major issue,
20 particularly since there are so many different ISPs, so
21 many mail providers, that it does not seem to me to be
22 an onerous requirement on someone if they don't like
23 their current ISPs' mail policies, to point out that
24 they always have the ability to get additional addresses
25 and additional domains.

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1 MR. SALSBURG: You mentioned that the idea of
2 domain owners putting a no soliciting tag in their
3 information is more workable.

4 MR. LEVINE: Yes.

5 MR. SALSBURG: You said it seemed to be working
6 on the ones using it. I'm sorry?

7 MR. LEVINE: No, go ahead.

8 MR. SALSBURG: What has been the experience of
9 domains that put such a tag on? Have they really gotten
10 no spam?

11 MR. LEVINE: Of course not because there's no
12 enforcement. One thing that -- CAUCE has always been
13 dedicated towards lobbying for activating spam laws, and
14 this basically was our version of the best way to create
15 a registry, but a registry is of no use if there aren't
16 sanctions for failure to use it.

17 The Direct Marketing Association has a Do Not
18 Spam List which is completely useless, and my friend,
19 Rodney Joffe, did an experiment called EMPS which that I
20 think you're familiar, but again technically it worked
21 fine, but nobody used it.

22 MR. SHAFRANOVICH: Enforcement is an issue.
23 That's what it comes down to. It comes down to that.

24 MR. LEVINE: Yeah, and again your Do Not Call
25 List is fabulously effective, but the reason it's so

1 much more effective than the DMA's Do Not Call List is
2 because people have to use it, and there are sanctions
3 if they don't.

4 MR. SHAFRANOVICH: I would also add and go back
5 to that model. A federated model, which is basically
6 what you're talking about, offers a spam registry where
7 Do Not E-mail Lists lets each domain owner specify his
8 setting in the registry, whatever it is, is more likely
9 to scale. The problem you had before is you come down
10 to getting those addresses.

11 If you have had some kind of a system further
12 where a company can do it. Each domain owner do it,
13 then that is more likely to scale.

14 MR. LEVINE: Exactly. I think we can
15 confidently say we know it would scale because it
16 basically will be one extra item of data added to the
17 DNS which already contains the delivery address for each
18 domain so basically every domain now has some number of
19 what are called MX records, would add one more record
20 with their spam policy.

21 That's not a large addition to the DNS. I think
22 we can be pretty confident that there would be no
23 scaling problems, and it would also be much cheaper to
24 administer because nobody would have to build a gigantic
25 central database.

1 MR. SALSBURG: What's a scaling problem? What
2 do you mean by that?

3 MR. LEVINE: Oh, it's the costs -- there are a
4 lot of -- for pretty much any kind of technical problem,
5 there are a lot of approaches that look like they work
6 when you try them on a few examples, but then you say,
7 Okay, this worked great on ten examples, now will it
8 work on ten million examples, and the answer is no
9 because at that much larger scale, there are issues that
10 you don't have when you're just doing it on an
11 experiment.

12 MR. SALSBURG: Can you give me a layman's
13 explanation of how this distributed data in the DNS
14 registry would work? If I was a marketer, would I
15 send an initial query, or how would I go about
16 determining whether or not, let's say, AOL was a
17 no spam ISP?

18 MR. LEVINE: Oh, yeah, you would make a query,
19 depending on how it was implemented, either to AOL's DNS
20 service or AOL's mail server, which would then send back
21 a piece of information that saying AOL's spam policy is
22 so and so, send us spam or don't send us spam.

23 Once they have that, then they can hold on to
24 it, and they know that that policy will apply to all the
25 AOL addresses in their list.

1 MS. ROBBINS: So would there be any change in
2 the filters then, or is this solely a marketer just
3 complying because they want to comply?

4 MR. LEVINE: Oh, it would be incumbent on the
5 senders of mail to comply with this. In fact if you --
6 if every time a sending -- every time a sending program
7 contacts AOL's mail server, the mail server sends them a
8 threatening looking legal notice which of course nobody
9 currently reads. Let me just tell what you it says.

10 It says: "America On Line and its affiliated
11 companies do not authorize the use of its proprietary
12 computers and computer networks to accept, transmit or
13 distribute unsolicited bulk e-mail sent from the
14 Internet."

15 So they've been putting a notice like this on
16 every single piece of mail they accept for years, but as
17 we've been pointing out, there's no legal sanctions on
18 mailers if they ignore it. They have been ignoring it.

19 MS. ROBBINS: With the CAN-SPAM Act, there's the
20 opt-out provision. What is your sense of how marketers
21 are complying with the CAN-SPAM Act?

22 MR. LEVINE: I'm trying to think if I've seen
23 any actual CAN-SPAM compliant mail.

24 MR. SHAFRANOVICH: I've seen one piece.

25 MR. LEVINE: Yeah. Well, of the mail that

1 actually asks for it, most of it is now compliant, and
2 most of it has a personal mailing address.

3 As far as the mail I haven't asked for, yeah, I
4 might have seen one or two pieces, but in general if the
5 question is whether marketers -- whether spammers are
6 complying with the Act, is no, they're not.

7 MS. ROBBINS: So what makes you think they would
8 comply with this type of system?

9 MR. LEVINE: In the absence of more effective
10 enforcement, they wouldn't.

11 MR. SHAFRANOVICH: I believe there are a bunch
12 of other companies that are complying with the CAN-SPAM
13 Act when you came out with federal compliance. The
14 bottom line is enforcement. If you enforce it, whatever
15 law you have, if it is enforced, it will work. If
16 there's no enforcement, then it will not work.

17 MR. LEVINE: Yeah. Under the current
18 circumstances, the only marketers I could see likely to
19 use a Do Not E-mail system would be like large banks that
20 are not sending unsolicited ads now but figure they
21 could get away with it if they had a good list washing
22 system like this would provide.

23 MR. SALSBURG: So it actually may increase the
24 amount of spam?

25 MR. LEVINE: It could since it would give more

1 of an air of legitimacy to it and it would be much
2 easier for them to say, Gosh, if you don't want spam,
3 tell the FTC, and we'll stop spamming you.

4 MR. SALSBURG: Do either of you have any other
5 thoughts on the domain wide system?

6 MR. LEVINE: I mean, if you're going to
7 implement a Do Not E-mail List at all, I think a
8 domain -- I think the distributed domain wide system
9 with the notice either being on the mail server and on
10 the DNS is by far the most workable, both technically
11 and administratively.

12 MS. ROBBINS: Aside from your example about the
13 tag, if it was just a domain wide opt-out without having
14 that tag, how do you think that kind of system would
15 deal with permission based e-mail and transactional
16 e-mail, if there was such a registry?

17 MR. LEVINE: It shouldn't affect it because it's
18 up to the sender to know when they have to obey the tag.

19 MS. ROBBINS: I'm saying in the absence of a
20 tag, if it was a domain wide opt-out where the domain's
21 registered, their name is on the list.

22 MR. LEVINE: The sender presumably knows whether
23 he's sending transactional mail or if he's sending
24 unsolicited ads, and my assumption would be that a Do
25 Not E-mail List would only apply to unsolicited e-mail,

1 not the transactional mail.

2 MS. ROBBINS: Okay.

3 MR. SALSBURG: Let's move on to another possible
4 registry model, and that would be a model involving a
5 register of authenticated senders. There are a
6 number of ways that could be done, but let me throw out
7 one possible way and let me hear your thoughts.

8 Under this model, an e-mail marketer would
9 register with the Commission, obtain a registration
10 number and enter in information regarding the IP addresses
11 and the domains from where they're going to be sending
12 their unsolicited commercial e-mail from.

13 That data, the domain and IP address, would be
14 made available to the ISP, and the e-mail marketer
15 would have to include the registration number in the
16 e-mail that they send.

17 So, in other words, the ISP would have the
18 registration number and access to the Commission
19 database that had the matching IP address and domain
20 names. Do you follow that?

21 MR. LEVINE: I follow it. I have to say I don't
22 see much point to it since all the ISPs I know would
23 simply use that list of IP addresses as a list of
24 addresses from which they will never ever accept mail,
25 so there wouldn't be much of an incentive for a marketer

1 to register for it.

2 I mean, I can see that if you believe in a world
3 where there are people eager to get unsolicited e-mail
4 ads, this would be a way to get them delivered better,
5 but everybody I know doesn't want any unsolicited e-mail
6 ads at all, so I don't see much benefit to anyone of
7 building a system like that.

8 MR. SHAFRANOVICH: Can I ask, what exactly would
9 the purpose of such a system be?

10 MR. SALSBURG: Let's change the facts slightly,
11 and instead of it being required of senders of
12 unsolicited commercial e-mail, a requirement for any
13 commercial e-mailer, so the purpose of it would be to
14 insure delivery of your messages if you wanted to get
15 them through.

16 MR. LEVINE: There are, in fact, some private
17 systems that do that now. Ann Mitchell's ISIPP, is
18 working on something like that. That can be useful as a
19 way for a legitimate mailer to prove it's bona fide, but
20 I don't see any reason that the FTC would want to get
21 involved with that since that is a system where it is of
22 direct advantage to the mailer to register. Private
23 registries can serve that function perfectly well.

24 MS. ROBBINS: Do you think that kind of model
25 could help with enforcement?

1 MR. LEVINE: Possibly, although the kind of
2 people who would register there would probably be ones
3 who would behave themselves anyway, but other than
4 simply being a way to make it easier to tell that
5 somebody probably wasn't worth investigating, I don't
6 see as much of a need for enforcement.

7 MR. SALSBURG: Let's say I didn't register and I
8 sent along my spam without a registration number. When
9 the ISP goes and checks the database, there's no
10 information on me.

11 MR. LEVINE: Yes.

12 MR. SALSBURG: Is it likely that my mail is
13 going to be filtered and never make it to an in-box?

14 MR. LEVINE: I frankly don't see that it would
15 make any difference to the situation we have now, where
16 the ISPs are diligently trying to filter all the spam
17 now, and they would continue to do so, so I don't see
18 this making any difference.

19 MR. SALSBURG: How does this -- I'm sorry, go
20 ahead, Yakov.

21 MR. LEVINE: In the absence of a number, it will
22 look like any other spam, so it's not going -- it will
23 be just like it is now. Yakov?

24 MR. SHAFRANOVICH: I mean, I've been thinking
25 about it. I'm trying to figure out. The purpose of

1 creating a spam list, how does the database come in?
2 I'm kind of looking at it. How would such a database
3 come in at all?

4 MR. LEVINE: Presumably the idea is that all of
5 the legitimate spammers, if there is such a thing, would
6 register and then you can say, Ah, anyone who hasn't
7 registered, if they sent you spam, is an illegitimate
8 spammer, but I would say that the ability -- I think
9 there are much more direct ways to do the same thing,
10 and in particular, I think that registering all the
11 marketers is a backwards way to go.

12 The marketers who we want to hear from identify
13 themselves directly to the recipients, and I just don't
14 see any advantage of trying to put the FTC in the middle
15 of that process.

16 MR. SALSBURG: A technical question for you.
17 Can the originating IP address on a piece of e-mail be
18 forged?

19 MR. LEVINE: There has been a lot of argument
20 about that. My belief is the answer is no. There is
21 some minor -- there's some minor exceptions. It's
22 what's known -- as I forget what it's called.

23 MR. SHAFRANOVICH: It's called BGP spoofing.

24 MR. LEVINE: Yes, there's what's called the BGP
25 spoofing which is basically where a bad guy tells his

1 ISP to route a little bit of the Net to him and which
2 is then forwarded off to the rest of the Net, and then
3 he gets somebody else's IP addresses for awhile and then
4 withdraws it.

5 I haven't see very much of that, and those sorts
6 of things are so disruptive to the Net in general that I
7 don't see much of that happening.

8 MR. SALSBURG: What was that called again?

9 MR. LEVINE: BGP spoofing. The only spoofing
10 that I've actually heard of is what's called triangular
11 routing which is unrelated to the triangulation I
12 referred to before, which AOL has observed lately,
13 where basically the bad guy has on both -- on the same
14 computer he has a fast connection through which he sends
15 out his spam, and he has a dial-up connection to AOL.

16 And he puts the IP address of the dial-up
17 connection on all of the mail going out through the fast
18 connection, so that the return packets come in through
19 the AOL connection. This actually works, and the point
20 of doing this is that the only addresses that people
21 will see are the AOL connections, and when AOL knocks
22 him off, he then takes his next stolen AOL credit card
23 and moves to there.

24 AOL has been looking at this. This turns out to
25 be a problem that they can easily fix by adjusting some

1 of their own filtering rules a little bit, so it's a
2 minor problem, but I don't see it as having much
3 effect.

4 So I think the short answer to your question is,
5 I can see theoretical ways that IP spoofing is possible,
6 but I don't see it as a large scale problem.

7 MR. SHAFRANOVICH: Yeah. In this country it
8 would be premature. We've heard the idea of people that
9 will opt-out. In theory it's possible. In practice,
10 it's highly unlikely. For all practical reasons, in the
11 end it cannot be spoofed.

12 There is another thing that has happened
13 sometimes, the IP addresses are stolen where a spammer
14 goes to the registry and claims to be a company A and asks
15 them to reassign an address to him, but that's not in
16 theory being spoofed. It's basically the ownership
17 that is being stopped.

18 MR. LEVINE: That's not a technical attack.
19 That's fairly a social or a business attack.

20 MR. SALSBURG: Are you familiar with other
21 authentication proposals that have been floating out
22 there such as Microsoft's Coordinated Spam Reduction
23 Initiative or Yahoo!'s Domain Keys and AOL's SPF?

24 MR. LEVINE: Yes, we've been talking to all of
25 them.

1 MS. ROBBINS: Do you have any thoughts on the
2 efficacy of any of those models?

3 MR. LEVINE: They all show promise. The SPF in
4 particular and some proposals relative to that have
5 actually been forwarded through the ASRG, and there will
6 be an informal session in Seoul, Korea, which I guess is
7 coming up in two weeks that's going to comment on them.

8 We're all attempting to do the same thing which
9 is to make it easier to determine that a piece of mail
10 is actually coming from the place that it purports to be
11 coming from.

12 So it will deter some kinds of forgery. It will
13 make phishing, that's phishing spelled P-H-I-S-H-I-N-G,
14 to try to steal people's account information a little
15 harder, but it's not directly useful against spam since
16 if the spammer puts a true return address that he
17 controls on the spam, then it will pass all those tests,
18 and it will be -- as far as they're concerned it will be
19 legitimate.

20 MR. SALSBURG: In your experience, do spammers
21 usually put true return addresses?

22 MR. LEVINE: No. No, because there's been no
23 advantage for them to do so. On the other hand, these
24 days the majority of spam is sent through hijacked
25 machines typically on consumer DSL or consumer cable

1 modem, and they can, with no trouble at all, put a
2 return address corresponding with the network where the
3 hijacked machine is and to feed basically any of
4 these schemes.

5 MR. SHAFRANOVICH: The basic premise, as I
6 mentioned before, the IP address is currently one thing
7 that cannot easily be bought. These proposals add an
8 extra layer to it by trying to make sure that the domain
9 name from which the mail comes from, also cannot be
10 spoofed.

11 That's the entire purpose. It's a way to add
12 additional information. Whether it's effective or not
13 effective is not -- we don't know. I'm just wondering
14 something, why the Federal Trade Commission -- what's
15 the connection to these proposals? These proposals are
16 more of a standards method or private method. I'm just
17 trying to figure out why they would be interested.

18 MR. SALSBURG: Well, for one thing, we're trying
19 to get as much of an understanding of the current status
20 of spam and anti-spam technology as possible, so that
21 whatever proposal we give to Congress can be
22 enlightened.

23 MR. SHAFRANOVICH: Yeah.

24 MR. LEVINE: I think these identity proposals
25 will make forgery more difficult, and it will make the

1 forensics easier to try to determine the actual party
2 responsible for sending an illegal piece of mail, but
3 from the point of view of a Do Not E-mail List, if a Do
4 Not E-mail List lists recipients, which by definition
5 can't be forged rather than senders, I mean, in any Do
6 Not E-mail model that I can think of, it's incumbent upon
7 the sender to obey the Do Not E-mail rules regardless of
8 who he claims to be.

9 So it's really tangential to the Do Not E-mail
10 issue and even to the whole spam issue.

11 MR. SHAFRANOVICH: May I take this time to
12 figure out whether these proposals will make tracing of
13 spam easier and prosecution of spam easier?

14 MS. ROBBINS: I'm sorry, can you repeat that?

15 MR. SHAFRANOVICH: Are you trying to figure out
16 whether this proposal will make enforcement easier?

17 MS. ROBBINS: One of the concerns or one of the
18 issues that Congress has asked us to look at is the
19 enforceability of any of these models or of a proposal
20 that we have to propose. We have to talk about the
21 security issue, the privacy issue, the enforceability
22 issues, and that's just one component that we need to
23 look at.

24 MR. SALSBURG: So if there are authentication
25 systems that are in the works that are being tried out

1 in the marketplace that would assist in enforcement,
2 that bears upon how we're going to evaluate the
3 proposals.

4 MR. LEVINE: All of these authentication schemes
5 are designed to make it easier to determine the actual
6 sender of a piece of e-mail, and to that extent, yes, it
7 will make enforcement easier since it will basically
8 remove one possible link from the chain to the recipient
9 back to the perpetrator.

10 I think that in terms of legal issues, it hasn't
11 been a link that's been particularly difficult to follow
12 for people who are motivated enough to sue. The point
13 here is to make it so it can be done automatically by
14 high speed computers, which is a whole separate issue.

15 MR. SALSBURG: Would the distributed registry
16 model where you put the tag in your DNS information
17 require any changes in protocol?

18 MR. LEVINE: No.

19 MR. SALSBURG: It would require some just
20 general agreement that this is where you put the
21 information?

22 MR. SHAFRANOVICH: Yeah.

23 MR. LEVINE: Yeah, and the only thing it would
24 require is it would require the software that the
25 mailers use be upgraded to examine the tag before

1 attempting to send the mail, but that would be within
2 the existing protocol, and particularly you would not --
3 other than publishing the tag, it would not put any
4 burden on the recipients of the mail. Their mail
5 servers would operate exactly as they do now.

6 MR. SHAFRANOVICH: So it's essentially you're
7 publishing the tag. If you're publishing the tag in the
8 e-mail server, then there will be no changes. That's
9 when the proposal becoming quite complicated, but if
10 you publish the e-mail, the only change that I would
11 think of would be indirectly any record type.

12 MR. LEVINE: Right, again -- although but it
13 still seems to me that once the recipient networks has
14 published that record, it has no further effect on the
15 way their mail server accepts mail.

16 MR. SALSBURG: We're going to take a quick pause
17 here for the court reporter.

18 (Discussion off the record.)

19 MR. SALSBURG: We're back on. Do either of you
20 have any closing thoughts that you want to provide on
21 the issue of a Do Not E-mail Registry?

22 MR. LEVINE: For me it's pretty much reiterating
23 what we said before. Technically a domain based system,
24 particularly a distributed domain based system, is
25 straightforward to implement, and I think we've done

1 enough experiments to know technically it could operate.

2 However, without more effective enforcement
3 which both involves changes in the laws so that
4 recipients can pursue spammers and more funding so that
5 agencies such as yours can go after larger violators on
6 a larger scale, it doesn't matter because spammers have
7 made it pretty clear that their activity's criminal, and
8 without strong enforcement, they're going to ignore
9 whatever nominal rules you attempt to place on them.

10 MR. SHAFRANOVICH: Yeah. I would just add
11 enforcement is the key. You need funding. You need
12 multiple parties able to sue and strong rules. That's
13 all, it all ties in to enforcing.

14 MR. SALSBURG: Are there additional people you
15 think we should talk to that you think would help
16 enlighten us?

17 MR. LEVINE: Based on what I understand -- the
18 answer is yes, but, I'm pretty sure they're already all
19 on your list.

20 MR. SALSBURG: Okay. We want to thank you,
21 and we're going to turn this over now to our colleague,
22 Julie Bush, who is one of the staff here at the FTC
23 working on the report the Commission has to provide to
24 Congress regarding a bounty system or reward system
25 for catching spammers.

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1 So thank you again, and please feel free to give
2 us a call if you have further comments.

3 MS. ROBBINS: Thank you very much.

1
2 C E R T I F I C A T I O N O F R E P O R T E R3
4 MATTER NUMBER: P044405

5 CASE TITLE: INTERVIEWS IN CAN-SPAM REPORT TO CONGRESS

6 HEARING DATE: FEBRUARY 26, 2004
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